

CRF Error Corrected by the STIC Systems Branch

Serial Number: 101069434

CRF Processing Date: 3/18/2002  
Edited by: A  
Verified by: A (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☒ Other: Seq 1 - corrected amino acid numbering  
separated C1507 and C1517 responses



PCT10

## RAW SEQUENCE LISTING

DATE: 03/18/2002

PATENT APPLICATION: US/10/069,434

TIME: 18:15:06

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\03182002\J069434.raw

```

1 <110> APPLICANT: INCYTE GENOMICS, INC.
2   THORNTON, Michael
3   RAMKUMAR, Jayalaxmi
4   TRIBOULEY, Catherine M.
5   YUE, Henry
6   NGUYEN, Danniel B.
7   YAO, Monique G.
8   PATTERSON, Chandra
9   GANDHI, Ameena R.
10  BURFORD, Neil
11  THANGAVELU, Kavitha
12  BAUGHN Mariah R.
14 <120> TITLE OF INVENTION: HUMAN LYASES
16 <130> FILE REFERENCE: PI-0137 PCT
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/069,434
C--> 19 <141> CURRENT FILING DATE: 2002-02-20
21 <150> PRIOR APPLICATION NUMBER: 60/213,383
22 <151> PRIOR FILING DATE: 2000-06-23
24 <150> PRIOR APPLICATION NUMBER: 60/215,544
25 <151> PRIOR FILING DATE: 2000-06-30
27 <150> PRIOR APPLICATION NUMBER: 60/222,818
28 <151> PRIOR FILING DATE: 2000-08-04
30 <160> NUMBER OF SEQ ID NOS: 6
32 <170> SOFTWARE: PERL Program
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 242
36 <212> TYPE: PRT
37 <213> ORGANISM: Homo sapiens
39 <220> FEATURE:
40 <221> NAME/KEY: misc_feature
41 <223> OTHER INFORMATION: Incyte ID No: 6338333CD1
43 <400> SEQUENCE: 1
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47           20           25           30
48 Pro Ile Glu Ile Lys Thr Lys Glu Val Lys Tyr Asp Ser Ser Leu
49           35           40           45
50 Arg Pro Leu Ser Ile Lys Tyr Asp Pro Ser Ser Ala Lys Ile Ile
51           50           55           60
52 Ser Asn Ser Gly His Ser Phe Asn Val Asp Phe Asp Asp Thr Glu
53           65           70           75
54 Asn Lys Ser Val Leu Arg Gly Gly Pro Leu Thr Gly Ser Tyr Arg

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56 Leu Arg Gln Val His Leu His Trp Gly Ser Ala Asp Asp His Gly
57          95          100          105
58 Ser Glu His Ile Val Asp Gly Val Ser Tyr Ala Ala Glu Leu His
59          110          115          120
60 Val Val His Trp Asn Ser Asp Lys Tyr Pro Ser Phe Val Glu Ala
61          125          130          135
62 Ala His Glu Pro Asp Gly Leu Ala Val Leu Gly Val Phe Leu Gln
63          140          145          150
64 Ile Gly Glu Pro Asn Ser Gln Leu Gln Lys Ile Thr Asp Thr Leu
65          155          160          165
66 Asp Ser Ile Lys Glu Lys Gly Lys Gln Thr Arg Phe Thr Asn Phe
67          170          175          180
68 Asp Leu Leu Ser Leu Leu Pro Pro Ser Trp Asp Tyr Trp Thr Tyr
69          185          190          195
70 Pro Gly Ser Leu Thr Val Pro Pro Leu Leu Glu Ser Val Thr Trp
71          200          205          210
72 Ile Val Leu Lys Gln Pro Ile Asn Ile Ser Ser Gln Gln Leu Ala
73          215          220          225
74 Lys Phe Arg Ser Leu Leu Cys Thr Ala Glu Gly Glu Ala Ala Ala
75          230          235          240
76 Phe Leu
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80 <211> LENGTH: 460
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82 <213> ORGANISM: Homo sapiens
84 <220> FEATURE:
85 <221> NAME/KEY: misc_feature
86 <223> OTHER INFORMATION: Incyte ID No: 1415322CD1
88 <400> SEQUENCE: 2
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90 1 5 10 15
91 Gly Phe Ser Thr Arg Asp Leu Leu Lys Glu Leu Thr Leu Gly Ala
92 20 25 30
93 Ser Gln Ala Thr Thr Asp Glu Val Ala Ala Phe Phe Val Ala Asp
94 35 40 45
95 Leu Gly Ala Ile Val Arg Lys His Phe Cys Phe Leu Lys Cys Leu
96 50 55 60
97 Pro Arg Val Arg Pro Phe Tyr Ala Val Lys Cys Asn Ser Ser Pro
98 65 70 75
99 Gly Val Leu Lys Val Leu Ala Gln Leu Gly Leu Gly Phe Ser Cys
100 80 85 90
101 Ala Asn Lys Ala Glu Met Glu Leu Val Gln His Ile Gly Ile Pro
102 95 100 105
103 Ala Ser Lys Ile Ile Cys Ala Asn Pro Cys Lys Gln Ile Ala Gln
104 110 115 120
105 Ile Lys Tyr Ala Ala Lys His Gly Ile Gln Leu Leu Ser Phe Asp
106 125 130 135
107 Asn Glu Met Glu Leu Ala Lys Val Val Lys Ser His Pro Ser Ala

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110		155		160		165
111	Cys Leu Ser Leu	Lys Phe Gly Val Ser	Leu Lys Ser Cys Arg	His		
112		170		175		180
113	Leu Leu Glu Asn	Ala Lys Lys His His	Val Glu Val Val Gly	Val		
114		185		190		195
115	Ser Phe His Ile	Gly Ser Gly Cys Pro	Asp Pro Gln Ala Tyr	Ala		
116		200		205		210
117	Gln Ser Ile Ala	Asp Ala Arg Leu Val	Phe Glu Met Gly Thr	Glu		
118		215		220		225
119	Leu Gly His Lys	Met His Val Leu Asp	Leu Gly Gly Gly Phe	Pro		
120		230		235		240
121	Gly Thr Glu Gly	Ala Lys Val Arg Phe	Glu Glu Ile Ala Ser	Val		
122		245		250		255
123	Ile Asn Ser Ala	Leu Asp Leu Tyr Phe	Pro Glu Gly Cys Gly	Val		
124		260		265		270
125	Asp Ile Phe Ala	Glu Leu Gly Arg Tyr	Tyr Val Thr Ser Ala	Phe		
126		275		280		285
127	Thr Val Ala Val	Ser Ile Ile Ala Lys	Lys Glu Val Leu Leu	Asp		
128		290		295		300
129	Gln Pro Gly Arg	Glu Glu Glu Asn Gly	Ser Thr Ser Lys Thr	Ile		
130		305		310		315
131	Val Tyr His Leu	Asp Glu Gly Val Tyr	Gly Ile Phe Asn Ser	Val		
132		320		325		330
133	Leu Phe Asp Asn	Ile Cys Pro Thr Pro	Ile Leu Gln Lys Lys	Pro		
134		335		340		345
135	Ser Thr Glu Gln	Pro Leu Tyr Ser Ser	Ser Leu Trp Gly Pro	Ala		
136		350		355		360
137	Val Asp Gly Cys	Asp Cys Val Ala Glu	Gly Leu Trp Leu Pro	Gln		
138		365		370		375
139	Leu His Val Gly	Asp Trp Leu Val Phe	Asp Asn Met Gly Ala	Tyr		
140		380		385		390
141	Thr Val Gly Met	Gly Ser Pro Phe Trp	Gly Thr Gln Ala Cys	His		
142		395		400		405
143	Ile Thr Tyr Ala	Met Ser Arg Val Ala	Trp Glu Ala Leu Arg	Arg		
144		410		415		420
145	Gln Leu Met Ala	Ala Glu Gln Glu Asp	Asp Val Glu Gly Val	Cys		
146		425		430		435
147	Lys Pro Leu Ser	Cys Gly Trp Glu Ile	Thr Asp Thr Leu Cys	Val		
148		440		445		450
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153	<211> LENGTH: 328					
154	<212> TYPE: PRT					
155	<213> ORGANISM: Homo sapiens					
157	<220> FEATURE:					
158	<221> NAME/KEY: misc_feature					

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\03182002\J069434.raw

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159 <223> OTHER INFORMATION: Incyte ID No: 3267634CD1
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163 1 5 10 15
164 Ile Val Cys Ile Ser Ala Gln Gln Asn Ser Pro Lys Ile His Glu
165 20 25 30
166 Gly Trp Trp Ala Tyr Lys Glu Val Val Gln Gly Ser Phe Val Pro
167 35 40 45
168 Val Pro Ser Phe Trp Gly Leu Val Asn Ser Ala Trp Asn Leu Cys
169 50 55 60
170 Ser Val Gly Lys Arg Gln Ser Pro Val Asn Ile Glu Thr Ser His
171 65 70 75
172 Met Ile Phe Asp Pro Phe Leu Thr Pro Leu Arg Ile Asn Thr Gly
173 80 85 90
174 Gly Arg Lys Val Ser Gly Thr Met Tyr Asn Thr Gly Arg His Val
175 95 100 105
176 Ser Leu Arg Leu Asp Lys Glu His Leu Val Asn Ile Ser Gly Gly
177 110 115 120
178 Pro Met Thr Tyr Ser His Arg Leu Glu Glu Ile Arg Leu His Phe
179 125 130 135
180 Gly Ser Glu Asp Ser Gln Gly Ser Glu His Leu Leu Asn Gly Gln
181 140 145 150
182 Ala Phe Ser Gly Glu Val Gln Leu Ile His Tyr Asn His Glu Leu
183 155 160 165
184 Tyr Thr Asn Val Thr Glu Ala Ala Lys Ser Pro Asn Gly Leu Val
185 170 175 180
186 Val Val Ser Ile Phe Ile Lys Val Ser Asp Ser Ser Asn Pro Phe
187 185 190 195
188 Leu Asn Arg Met Leu Asn Arg Asp Thr Ile Thr Arg Ile Thr Tyr
189 200 205 210
190 Lys Asn Asp Ala Tyr Leu Leu Gln Gly Leu Asn Ile Glu Glu Leu
191 215 220 225
192 Tyr Pro Glu Thr Ser Ser Phe Ile Thr Tyr Asp Gly Ser Met Thr
193 230 235 240
194 Ile Pro Pro Cys Tyr Glu Thr Ala Ser Trp Ile Ile Met Asn Lys
195 245 250 255
196 Pro Val Tyr Ile Thr Arg Met Gln Met His Ser Leu Arg Leu Leu
197 260 265 270
198 Ser Gln Asn Gln Pro Ser Gln Ile Phe Leu Ser Met Ser Asp Asn
199 275 280 285
200 Phe Arg Pro Val Gln Pro Leu Asn Asn Arg Cys Ile Arg Thr Asn
201 290 295 300
202 Ile Asn Phe Ser Leu Gln Gly Lys Asp Cys Pro Asn Asn Arg Ala
203 305 310 315
204 Gln Lys Leu Gln Tyr Arg Val Asn Glu Trp Leu Leu Lys
205 320 325
207 <210> SEQ ID NO: 4
208 <211> LENGTH: 911
209 <212> TYPE: DNA

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TIME: 18:15:06

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\03182002\J069434.raw

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210 <213> ORGANISM: Homo sapiens
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213 <221> NAME/KEY: misc_feature
214 <223> OTHER INFORMATION: Incyte ID No: 6338333CB1
216 <400> SEQUENCE: 4
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219 tctccaattg agattaaaaac caaagaagtg aaatatgact cttccctccg accacttagt 180
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222 aggttacggc aggttcacct tcaactggggg tccgctgatg accacggctc cgagcacata 360
223 gtagatggag tgagctatgc tgcagagctc catgttgttc actggaattc agacaaatac 420
224 cccagctttg ttgaggcagc tcatgaacca gatggactgg ctgtcttggg agtgttttta 480
225 cagattggtg aacctaatc ccaactgcaa aagattactg acactttgga ttccattaaa 540
226 gaaaagggtg aacaaactcg attcacaaat ttgacctat tgtctctgct tccaccatcc 600
227 tgggactact ggacatatcc tggttctctt acagttccac ctcttcttga gagtgtcaca 660
228 tggattgttt taaagcaacc tataaacatc agctctcaac agctggccaa atttcgcagt 720
229 ctctgtgca cagcggaggg tgaagcagca gcttttctgt gatagagtct cactctgtca 780
230 cccaggctgg agggcagtgg tacaatcttg gctaattgca gcctccaaact cctggactca 840
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232 caggggggaaa a 911
234 <210> SEQ ID NO: 5
235 <211> LENGTH: 2064
236 <212> TYPE: DNA
237 <213> ORGANISM: Homo sapiens
239 <220> FEATURE:
240 <221> NAME/KEY: misc_feature
241 <223> OTHER INFORMATION: Incyte ID No: 1415322CB1
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247 ttctgaggtc accggcgacc cccctagca gcgcgcctgg ctctggcccc cgcgaaggag 240
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258 tgtaactgaa atcctgcaga cactgcttg aaaatgcgaa gaagcaccat gtggaggtgg 900
259 tgggtgtgag ttttcacatt ggcatggct gtcctgacct tcaggccctat gctcagtcca 960
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261 tggaccttgg tgggtggctt cctggcacag aaggggcca agtgagattt gaagagattg 1080
262 cttccgtgat caactcagcc ttggacctgt acttcccaga gggctgtggc gtggacatct 1140
263 ttgctgagct ggggcgctac tacgtgacct cggccttcac tgtggcagtc agcatcattg 1200

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VERIFICATION SUMMARY

DATE: 03/18/2002

PATENT APPLICATION: US/10/069,434

TIME: 18:15:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\03182002\J069434.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date